IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DRAWINGS FOR:

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

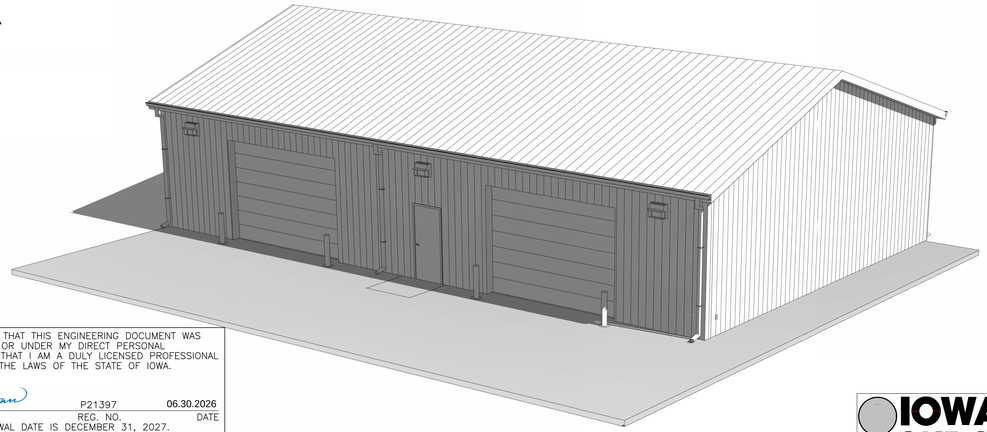
MARSHALL COUNTY ATV
MARSHALL COUNTY, IOWA

PROJECT # 20-05-64-01

PLANS PREPARED BY:

CONSERVATION AND RECREATION DIVISION
LAND AND WATERS BUREAU

SHEET INDEX	
SHEET NUMBER	**SHEET NAME**
ARCHITECTURAL	
A001	COVER SHEET
A002	PROJECT LOCATION
A003	WALL TYPES AND NOTES
A004	SITE PLANS
A010	LIFE SAFETY PLAN
A100	FLOOR PLAN
A110	REFLECTED CEILING PLAN
A200	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A400	WALL SECTIONS AND DETAILS
A500	DETAILS
A600	SCHEDULES AND DETAILS
MECHANICAL	
M100	MECHANICAL PLANS
ELECTRICAL	
E001	ELECTRICAL GENERAL NOTES
E100	ELECTRICAL PLANS
E200	ONE-LINE AND SCHEDULES



I hereby certify that this architectural document was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Architect under the laws of the State of Iowa.

BRIAN D. PHIPPS 07862 — LICENSED PROFESSIONAL ARCHITECT — IOWA

Brian D. Phipps — 6-30-26 DATE

My license renewal date is June 30, 2027.

Pages or sheets covered by this seal:

A-001 - A-600

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

ANDREW J. VERSLUYS P26463 — LICENSED PROFESSIONAL ENGINEER — IOWA

ANDREW JOHN VERSLUYS, P.E. — NO. P26463 — 06/30/2026 DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

SPECIFICATIONS COVERED BY THIS SEAL:

E-Series

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

CHAD D. BASS P21397 — LICENSED PROFESSIONAL ENGINEER — IOWA

CHAD D. BASS — REG. NO. P21397 — 06.30.2026 DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027.

PAGES OR SHEETS COVERED BY THIS SEAL:

M AND P DRAWINGS

IOWA ONE CALL 1-800-292-8989 811 www.iowaonecall.com

BID ITEMS

ITEM #	ITEM DESCRIPTION	ESTIMATED QUANTITY
1	MOBILIZATION	1 LS
2	SITE GRADING	1 LS
3	CONCRETE FOOTINGS	1 LS
4	CONCRETE APRON SLAB AND BOLLARDS	1 LS
5	INSULATED INTERIOR CONCRETE SLAB	1 LS
6	MECHANICAL - VENTS AND LOUVERS	1 LS
7	ELECTRICAL - LIGHTING	1 LS
8	ELECTRICAL - SERVICE AND MISC.	1 LS
9	ELECTRICAL - HEATERS	1 LS
10	PLUMBING - STUB UPS, CURB STOP, DRAIN-DOWN PIT	1 LS
11	PRE-ENGINEERED POST FRAME BUILDING - W/ STEEL SIDING AND ROOFING	1 LS
12	INTERIOR CORRUGATED METAL WALL AND CEILING LINER PANELS	1 LS
13	DOORS, FRAMES, AND TRIM	1 LS
14	GUTTERS AND DOWNSPOUTS	1 LS
15	CLOSED CELL SPRAY FOAM INSULATION - CEILING AND WALLS	1 LS

PROJECT DATA - OFFICE BUILDING

OCCUPANT LOAD:
GROUP U - UTILITY / ACCESSORY
PRIVATE GARAGE AREA - 2560 GROSS (I.B.C. TABLE 1004.1.1)

PRIVATE GARAGE - 2560 S.F. / 300 = 9 OCCUPANTS

TOTAL OCCUPANT LOAD = 9 OCCUPANTS

MEANS OF EGRESS:

MIN. REQ'D # OF EXITS = 1 EXITS PER LEVEL (IBC TABLE 1021.1)
MAX TRAVEL DISTANCE = 200' (IBC 1016.1)
DEAD-END CORRIDOR = 20' MAX. (IBC 1018.4)
MIN. CORRIDOR WIDTH = 36" CLEAR
MIN. CLEAR OPENINGS FOR EXIT DOORS = 32" (ACTUAL 34")

FIRE EXTINGUISHERS:

THE NUMBER AND LOCATIONS OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHAL PRIOR TO CERTIFICATE OF OCCUPANCY.

BUILDING:
ADDRESS: NICHOLSON-FORD OHV PARK
2002 EAST MARION STREET
MARSHALTOWN, IA 50158
MARSHALL COUNTY

USE - OFFICE / GARAGE
BUILDING CONSTRUCTION - TYPE V-B (WITHOUT AUTOMATIC SPRINKLER SYSTEM)
NUMBER OF STORIES - 1 STORY
BUILDING HEIGHT - 19'-8"
BUILDING AREA - 2560 GSF
BUILDING OCCUPANCY - GROUP U, UTILITY - PRIVATE GARAGE

PROJECT NARRITIVE

The contractor shall be responsible for providing and installing all items within this narrative, the drawings, and project manual unless specifically noted. This narrative is not meant to be a comprehensive account of all items to be covered by the contract, review all documents. The contractor is responsible for field verifying all dimensions and establishing all quantities that are dictated as "lump sum".

This project, STORAGE BUILDING, shall commence after the contract is executed and shall be completed no later than the completion date stated on the contract.

Project narrative: The Marshall County ATV Park is in need of additional storage space to store equipment used to maintain the ATV park trails and grounds. The new storage building will be of pre-engineered wood post-frame construction with metal siding and roof. The interior will have an insulated concrete floor, LED lighting fixtures, 220v plugs and multiple 110v receptacles, two suspended electrical heaters, water service stub-outs for future water hydrant connection and new drain-down floor drain pits.

AUTHORIZATION TO BID

Travis Baker — Digitally signed by Travis Baker Date: 2026.08.18 12:26:39 -05'00'

ENGINEERING BUREAU CHIEF — DATE

Jessica Flatt — Digitally signed by Jessica Flatt Date: 2026.08.18 11:31:06 -05'00'

AUTHORIZED - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT — DATE

DIRECTORY

OWNER		DISTRICT INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	6200 PARK AVENUE SUITE 200	ADDRESS	
CITY,STATE,ZIP	DES MOINES, IA 50321	CITY,STATE,ZIP	INDIANOLA, IA
CONTACT	N/A	CONTACT	JASON KRUSE
TELEPHONE	515.725.8200	TELEPHONE	515-250-3707
FAX	515.725.8202	FAX	-
EMAIL	N/A	EMAIL	JASON.KRUSE@DNR.IOWA.GOV
ARCHITECT		**ELECTRICAL ENGINEER**	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	KCL ENGINEERING
ADDRESS	6200 PARK AVENUE SUITE 200	ADDRESS	300 4TH STREET
CITY,STATE,ZIP	DES MOINES, IA 50321	CITY,STATE,ZIP	WEST DES MOINES, IA 50265
CONTACT	BRIAN PHIPPS	CONTACT	
TELEPHONE	515-452-9438	TELEPHONE	
FAX	-	FAX	-
EMAIL	BRIAN.PHIPPS@DNR.IOWA.GOV	EMAIL	
MECHANICAL ENGINEER			
COMPANY	KCL ENGINEERING	COMPANY	
ADDRESS	300 4TH STREET	ADDRESS	
CITY,STATE,ZIP	WEST DES MOINES, IA 50265	CITY,STATE,ZIP	
CONTACT		CONTACT	
TELEPHONE		TELEPHONE	-
FAX	-	FAX	-
EMAIL		EMAIL	-
COMPANY	-	COMPANY	-
ADDRESS	-	ADDRESS	-
CITY,STATE,ZIP	-	CITY,STATE,ZIP	-
CONTACT	-	CONTACT	-
TELEPHONE	-	TELEPHONE	-
FAX	-	FAX	-
EMAIL	-	EMAIL	-

IOWA DEPARTMENT OF NATURAL RESOURCES
- ENGINEERING SERVICES -
6200 PARK AVENUE STE. 200
DES MOINES, IA 50321
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F: 515.725.8202

IOWA DNR

COVER SHEET

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64
MARSHALL COUNTY ATV
2002 MARION STREET MARSHALLTOWN, IOWA 50158

Date	Description
05-12-2026	100% Bidding Documents

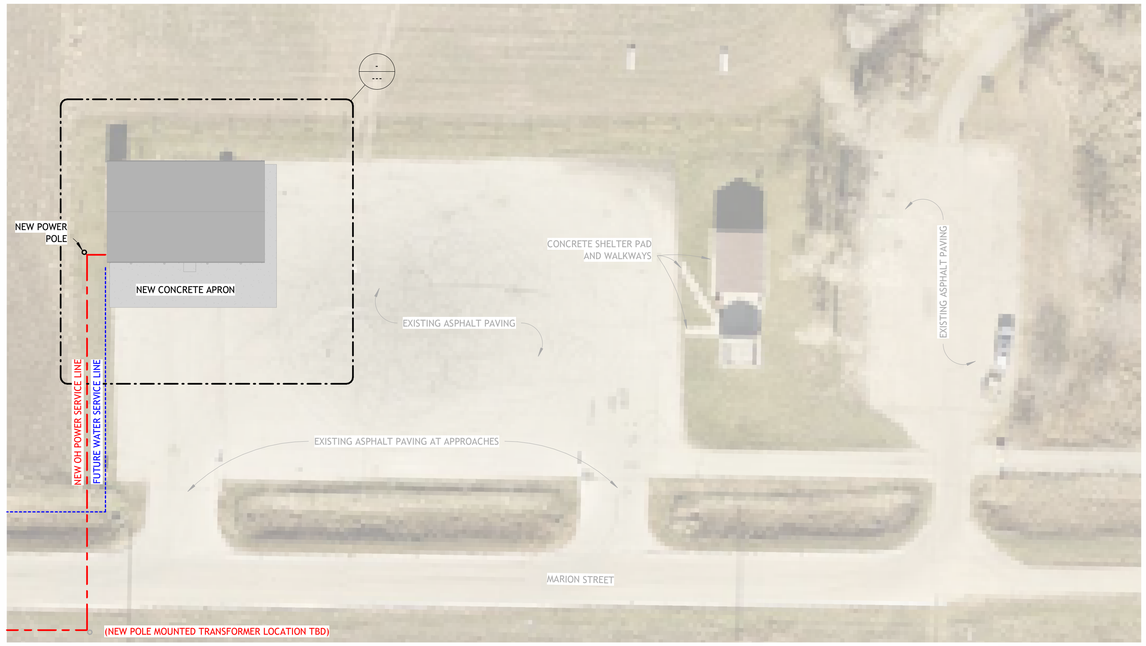
DRAWN BY: BDP
PROJECT NUMBER: 20-05-64-01
CHK'D BY:
DATE: 05-12-2026

SHEET No: **A001**



SITE PHOTO

2 BUILDING FOOTPRINT LOCATION



1 SITE LOCATION PLAN

1" = 30'-0"

N

0 15' 30' 60'

0 2"

1" = 30'-0"

IOWA DEPARTMENT OF NATURAL RESOURCES

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PROJECT LOCATION

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

MARSHALL COUNTY ATV

2002 MARION STREET MARSHALLTOWN, IOWA 50158

Date	Revision
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DRAWN BY: BDP

PROJECT NUMBER: 20-05-64-01

CHK'D BY:

DATE: 05-12-2026

SHEET No:

A002

DIMENSION NOTES

1. AT SOME INTERIOR SPACES THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN HAVING THE ELEMENTS BE EQUAL IN DISTANCE. IN THESE CASES, THE WORD "EQUAL OR EQ" IS USED IN LIEU OF THE ACTUAL DIMENSIONS.
2. WHEN A ROOM CENTERLINE IS INDICATED ONLY ONE SIDE OF ROOM ELEMENTS MAY BE DIMENSIONED.
3. COLUMN IDENTIFICATION: DETAILS WILL GOVERN ALL DIMENSIONS. DIMENSIONS MAY NOT BE SHOWN ON SMALL SCALE PLANS.
4. PARTITIONS CENTERED ON COLUMN OR GRID LINES MAY NOT BE DIMENSIONED ON SMALL SCALE PLANS.
5. PARTITIONS WITH A FINISHED FACE FLUSH WITH FINISH FACE OF COLUMN MAY NOT BE DIMENSIONED ON SMALL SCALE PLANS
6. PARTITIONS WITH FINISH FACE ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
7. WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.
8. WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE DIMENSIONED.
9. DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF THE FOLLOWING:
   a. ALL DOOR JAMB FRAMING NEAR PERPENDICULAR WALLS ARE 4 INCHES FROM FACE OF PERPENDICULAR WALL TYPICAL.
   b. OR AS DIMENSIONED ON PLAN.
10. PARTITIONS ARE DIMENSIONED TO FACE OF CMU OR FACE OF STUD UNLESS NOTED.
11. DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

MATERIAL LEGEND

- EARTH
- COMPACTED EARTH
- COMPACTED GRANULAR FILL
- CLAY
- CONCRETE
- CONCRETE BLOCK(CMU)
- MASONRY/BRICK
- METAL STUD
- STEEL
- ALUMINUM
- PARTICLE BOARD
- PLYWOOD
- CARPET
- BATT INSULATION
- FOAM INSULATION
- RIGID INSULATION
- GYPSUM
- STUCCO
- GROUT
- TURF
- PLASTIC
- ACOUSTICAL CEILING TILE
- UNFINISHED WOOD
- FINISHED WOOD
- SAND
- CRUSHED STONE
- CAST STONE/STONE
- STONE
- GLASS
- WOOD BLOCKING
- CONTINUOUS WOOD

SYMBOL LEGEND

- NORTH ARROW
- 00 TITLE — SCALE: 0 = 0'-0" — DRAWING / DETAIL IDENTIFICATION
- 00 / A-000 — SECTION REFERENCE
- 00 / A-000 — DETAIL CALLOUT
- 00 / A-000 — INTERIOR/EXTERIOR ELEVATION
- DESCRIPTION / 0'-0" AFF — ELEVATION TARGET
- 1 / A — COLUMN GRID
- MATCH LINES
- ROOM / 000 — ROOM/SPACE IDENTIFICATION
- 100 — DOOR TAG
- 00 — WINDOW TAG
- 00 — WALL TYPE REFERENCE
- 00 — NOTE REFERENCE
- PROPERTY LINE REFERENCE
- CENTER LINE REFERENCE
- 0" — LEVEL CHANGE REFERENCE
- DETAIL CUT LINE
- 1 — REVISION NUMBER AND CLOUD

GENERAL NOTES

THE FOLLOWING GENERAL NOTES SHALL PERTAIN TO THE ENTIRE SET OF CONTRACT DOCUMENTS:

1. A GENERAL CONTRACTOR SHALL NOTE THAT THE ARCHITECTURAL DRAWINGS ESTABLISH A MINIMUM MATERIAL AND CONSTRUCTION METHOD STANDARD. THE GENERAL CONTRACTOR SHALL PROVIDE A BID PRICE BASED ON THE SPECIFIC MATERIALS NOTED.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
3. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PERFORM THEIR WORK IN ACCORDANCE WITH ALL APPLICABLE CODES GOVERNING EACH TRADE.
4. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND ORGANIZED JOB SITE, ACCEPTABLE TO THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE OWNERS REPRESENTATIVE.
6. THERE SHALL BE NO DEVIATION BY THE GENERAL CONTRACTOR FROM THE CONSTRUCTION DOCUMENTS UNLESS APPROVED IN WRITING BY THE ARCHITECT.
7. EACH CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO THE INITIATION OF WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE WORK AS OUTLINED ON THE CONSTRUCTION DRAWINGS.
8. INDIVIDUAL CONTRACTOR TRADES ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH OTHER TRADES ON THE JOBSITE. ADDITIONAL COSTS INCURRED DUE TO LACK OF COORDINATION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING BUILDING WATER TIGHT DURING CONSTRUCTION.
10. THE CONTRACTOR WILL VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT ALL PHASES OF CONSTRUCTION.
11. PLAN DIMENSIONS ARE GIVEN TO CENTER OF STUD OR TO FACE OF BLOCK WALL. "CLEAR" DIMENSIONS ARE GIVEN TO WALL FACE.
12. THE OWNER WILL ASSUME ALL LIABILITY AND SHALL TAKE PERSONAL RESPONSIBILITY FOR ANY DECISIONS THAT THEY MAKE TO CHANGE OR ALTER THE CONSTRUCTION DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
13. PROTECT ALL EXISTING FINISHES AND MATERIALS TO REMAIN IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICES, MANUFACTURER RECOMMENDATIONS, OR AS DIRECTED BY THE ARCHITECT.
14. CUTTING OF EXISTING CONSTRUCTION FOR THE INSTALLATION OF ALL NEW WORK BY ALL TRADES, AND THE SUBSEQUENT PATCHING THEREOF, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, REGARDLESS OF WHETHER GENERAL CONTRACTOR PERFORMS THE WORK. GRINDING OF MATERIALS FOR REMOVAL SHALL NOT BE PERMITTED. CUTTING SHALL BE TO STRAIGHT LINE. UNWORKMAN-LIKE CUTTING, DAMAGE RESULTING THEREFROM AND UNACCEPTABLE PATCHING SHALL BE REPAIRED AND/OR REPLACED TO AN ACCEPTABLE CONDITION APPROVED BY THE ARCHITECT. AN OWNER PROJECT REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO CUTTING OF ANY STRUCTURAL ITEM (I.E. CONCRETE FLOOR, MASONRY, WALL, ETC.) WITHIN THE EXISTING BUILDING. METHOD OF CUTTING SHALL BE APPROVED BY THE OWNERS PROJECT REPRESENTATIVE.
15. PATCHING MATERIAL SHALL MATCH EXISTING ADJACENT MATERIALS AS CLOSELY AS POSSIBLE IN COLOR, PATTERNS, AND/OR TEXTURES.
16. ALL SALVAGE MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ALL NON-SALVAGE CONSTRUCTION MATERIALS AND DEBRIS FROM DEMOLITION WORK SHALL BE REMOVED FROM THE SITE AS WORK PROGRESSES, UNLESS OTHERWISE NOTED.
17. ISOLATE ALL DISSIMILAR METALS. GENERAL CONTRACTOR SHALL REQUEST APPROVAL BY THE ARCHITECT FOR EXCEPTIONS TO THIS PRIOR TO INSTALLATION.
18. SEALANTS SHALL BE COMPATIBLE WITH ADJACENT SURFACE(S) THAT ARE IN CONTACT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS AND PROCEDURES.
19. CAULK JOINTS OF DISSIMILAR EXPOSED TO VIEW MATERIALS AS REQUIRED BY THE ARCHITECT.
20. ALL DOOR HARDWARE TO BE 2010 AMERICANS WITH DISABILITIES ACT(ADA) COMPLIANT.
21. ALL EXTERIOR WALLS, DOORS AND WINDOWS ARE EXISTING U.N.O.
22. ALL FINISHES TO BE PER CLASS INDICATED IN SPECIFICATIONS
23. NO CONSTRUCTION SHALL OCCUR WITHOUT ARCHITECTS SHOP DRAWING APPROVAL. GENERAL CONTRACTOR TO PROVIDE REVIEWED, SIGNED AND DATED SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE PROVIDED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
    - CABINETRY MILLWORK
    - RUNNING TRIM AND CASING PROFILES
    - PAINT/LAMINATE COLOR SAMPLES
    - ACOUSTICAL CEILING AND GRID
    - TOILET ACCESSORIES
    - KITCHEN EQUIPMENT
    - ROOF PENETRATIONS
    - HVAC EQUIPMENT
    - PLUMBING EQUIPMENT AND FIXTURES
    - ELECTRICAL EQUIPMENT AND FIXTURES
24. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL PRODUCTS USED TO PERFORM THE WORK.

VERIFY ALL ACTUAL LOCATIONS AND ELEVATIONS WITH DNR ENGINEER.

ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE PROJECT AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ACTUAL JOB CONDITIONS PRIOR TO BIDDING AND THE START OF WORK. FAILURE TO VISIT THE PROJECT SITE SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK IN ACCORDANCE TO THE PLANS, SPECIFICATION, SPECIAL PROVISIONS AND CONTRACT.

THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS AND SHALL NOTIFY THE DNR ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE). NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE DNR ENGINEER.

THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE DNR ENGINEER.

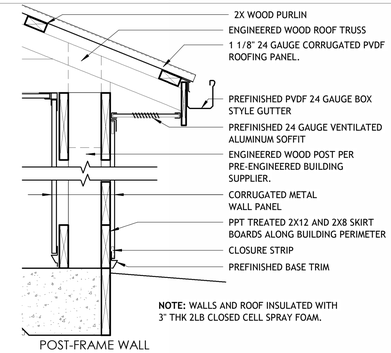
WHERE UTILITIES AND FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DNR ENGINEER OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE AFFORDED ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

THE CONTRACTOR SHALL SHAPE GRADED AREA TO MAINTAIN SURFACE DRAINAGE. ALL ELEVATIONS ARE TO FINISH GRADE.

THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS OR SILT DIKES.

*DIVISIONS 20-41 OF THE STANDARD SPECIFICATIONS FOR BRIDGE AND HIGHWAY CONSTRUCTION, CURRENT EDITION WITH GS-15011 SHALL APPLY TO THIS PROJECT.

WALL TYPES



POST-FRAME WALL

1 **NON-RATED/NON-BEARING**
1" = 1'-0"

IOWA DEPARTMENT OF NATURAL RESOURCES
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6200 PARK AVENUE STE. 200
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WALL TYPES AND NOTES

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)-9G-64

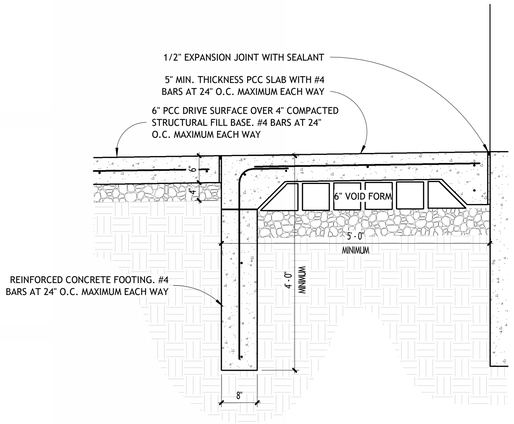
MARSHALL COUNTY ATV

2002 MARION STREET MARSHALLTOWN, IOWA 50158

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DRAWN BY: BDP
PROJECT NUMBER: 20-05-64-01
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DATE: 05-12-2026

SHEET No: **A003**



FROST PROTECTED STOOP

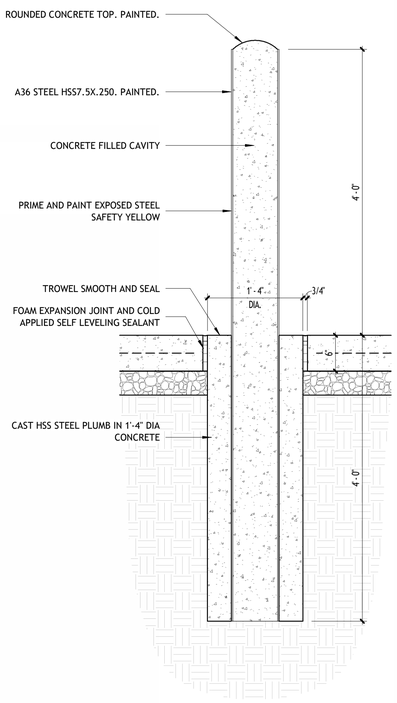
4 DETAIL - STOOP FOOTING

3/4" = 1'-0"



2 SITE LOCATION PLAN

1" = 30'-0"



3 BOLLARD DETAIL

1" = 1'-0"



1 SITE DEMO PLAN

1" = 30'-0"

GENERAL NOTES - SITE PLAN

1 NEW BUILDING FOOTPRINT
2 (1660 SF) NEW 4000 PSI CONCRETE APRON. 6" CONCRETE WITH #4 BAR REINFORCEMENT AT 24 INCHES ON CENTER. BAR TO BE PLACED ON CHAIRS AT EACH BAR INTERSECTION TO 3 INCHES ABOVE SUBSTRATE. TROWEL FINISH SMOOTH AND SEAL WITH PENETRATING SILANE/SILOXANE SEALER PER MANUFACTURER SPECIFICATIONS(SILOXA-TEK 8500 R SIMILAR).
3 NEW FROST PROOF STOOP SLAB. SEE DETAIL 4/A004.
4 EXISTING ASPHALT PARKING LOT
5 EXISTING PARK SHELTER
6 EXISTING PIT VAULT TOILET
7 EXISTING ASPHALT SECONDARY PARKING LOT
8 EXISTING ASPHALT WALK WAY
9 EXISTING ASPHALT DRIVE ENTRY
10 NEW 8" BOLLARD. ONE EACH SIDE OF OVERHEAD DOOR OPENINGS. SEE DETAIL 3/A004.

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SITE PLANS

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

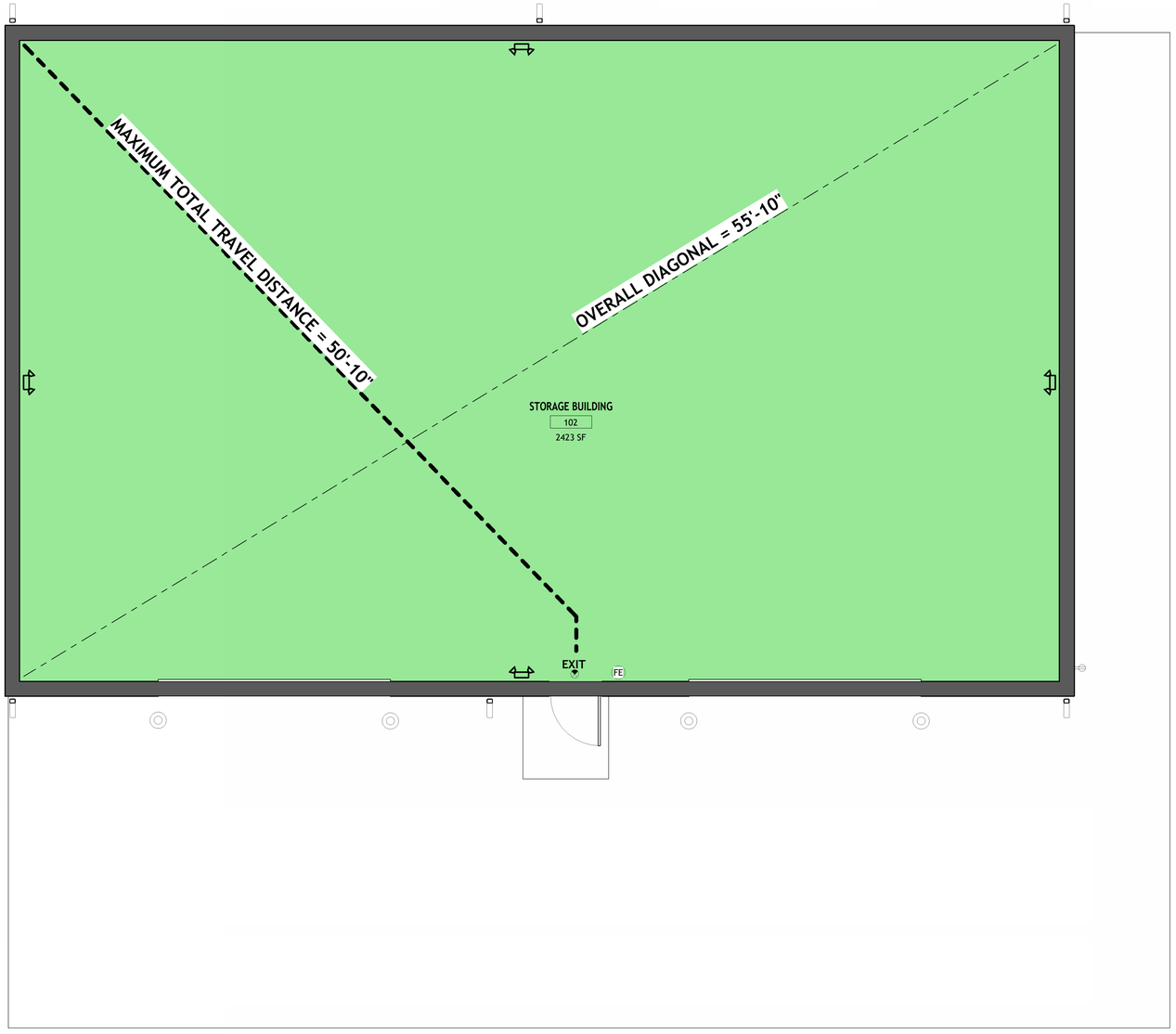
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N

1 LIFE SAFETY PLAN
1/4" = 1'-0"

0 1.3' 2.7' 5.3'
0 2'
3/8" = 1'-0"

APPLICABLE BUILDING CODES:

2024 INTERNATIONAL BUILDING CODE
2024 INTERNATIONAL FIRE CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2024 INTERNATIONAL EXISTING BUILDINGS CODE
IOWA STATE MECHANICAL CODE - BASED ON 2024 INTERNATIONAL MECHANICAL CODE
IOWA STATE PLUMBING CODE - BASED ON 2024 UNIFORM PLUMBING CODE
IOWA STATE ELECTRICAL CODE - BASED ON 2023 NATIONAL ELECTRIC CODE
2010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN

INTERNATIONAL BUILDING CODE

CHAPTER 3
312.1 - UTILITY AND MISCELLANEOUS - GROUP U

CHAPTER 4
406.3 - PRIVATE GARAGES

CHAPTER 5
501.2 - ADDRESS IDENTIFICATION
TABLE 504.3 - NON-SPRINKLED; TYPE V-B CONSTRUCTION
ALLOWABLE BUILDING HEIGHT = 40'-0"
TABLE 504.4 - 1-STORY ALLOWED
TABLE 506.2 - BUILDING AREA - 9000SF MINIMUM ALLOWED

CHAPTER 6
TABLE 601 - BUILDING CONSTRUCTION TYPE V-B

CHAPTER 9
906.1 - LOCATE FIRE EXTINGUISHERS OF REQUIRED TYPE AS REQUIRED BY AHJ.
907.2 - APPROVED FIRE ALARM SYSTEM PER NFPA 72 REQUIRED.

CHAPTER 10
1002.2 - FIRE SAFETY AND EVACUATION PLAN SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL FIRE CODE 401.2 AND 404.
TABLE 1004.1 SEE PROJECT DATA ON SHEET A001 FOR BUILDING OCCUPANT LOADS
1005.3.2 EGRESS SIZING
TABLE 1006.2.1 MAX. COMMON PATH OF EGRESS TRAVEL = 75' FOR U
1010.1.6 THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT AT DOORS ALONG PATH OF EGRESS. FLOOR CHANGES GREATER THAN 1/4" SHALL BE BEVELED AT ONE UNIT VERTICAL AND TWO UNITS HORIZONTAL.
TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE W/O SPRINKLER = 300'

CHAPTER 11
1101.2 BUILDING TO BE DESIGNED IN ACCORDANCE WITH ICC A117.1

CHAPTER 13
1301.1.1 BUILDINGS TO BE DESIGNED AND CONSTRUCTED ACCORDING TO 2012 IECC

CHAPTER 14
1404.2 MINIMUM THICKNESS OF EXTERIOR STEEL SIDING = 0.0149"(28 GAUGE MIN.)

INTERNATIONAL FIRE CODE

313.1 EX. 1 FUELED EQUIPMENT - BUILDING AND ROOMS CONSTRUCTED AS REQUIRED BY INTERNATIONAL BUILDING CODE

EXIT EXIT SIGNAGE

EMERGENCY EXIT LIGHTING

OCCUPANCY CLASSIFICATION

UTILITY - U

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LIFE SAFETY PLAN

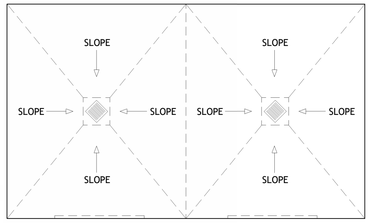
STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64
MARSHALL COUNTY ATV

2002 MARION STREET MARSHALLTOWN, IOWA 50158

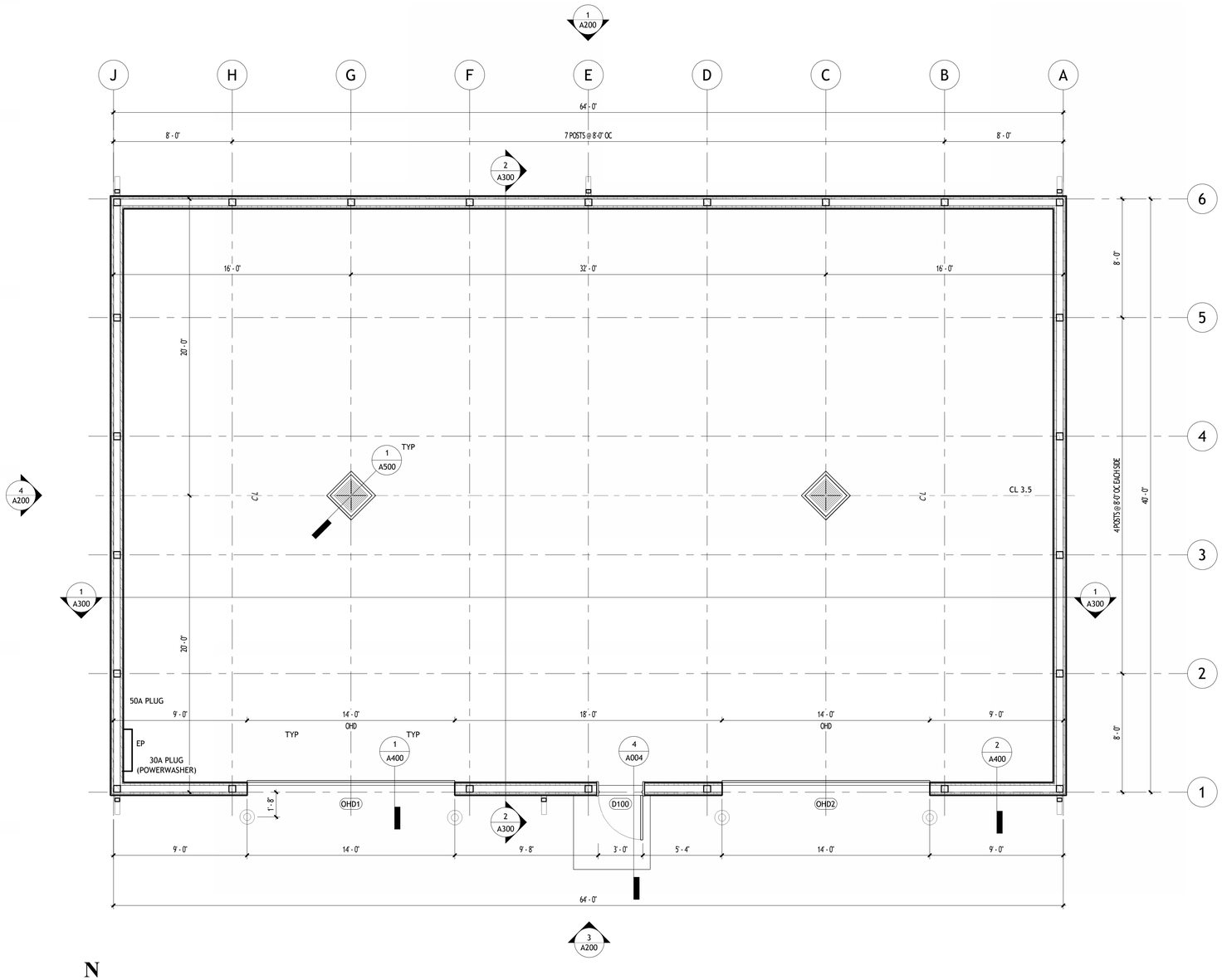
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DATE: 05-12-2026

SHEET No: A010



FLOOR SLOPE DIAGRAM
NOTE: SAW CUT JOINTS ALONG COLUMN LINES C,E,G AND 3.5.



N

1 FIRST FLOOR PLAN
1/4" = 1'-0"

0 1' 2' 4'
0 1/2" 2"

FLOOR PLAN NOTES

1. SLOPE FLOOR 1/4:12 TO FLOOR DRAINS
2. FLOOR SLAB TO BE 6-INCH THICKNESS 4000PSI CONCRETE MINIMUM. SLAB TO BE REINFORCED WITH #3 BARS AT 24" OC EW OR SHEET STOCK WWF 6X6 W2.9X2.9.
3. TROWEL FINISH SMOOTH AND SEAL WITH SILANE/SILOXANE SEALER

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FLOOR PLAN

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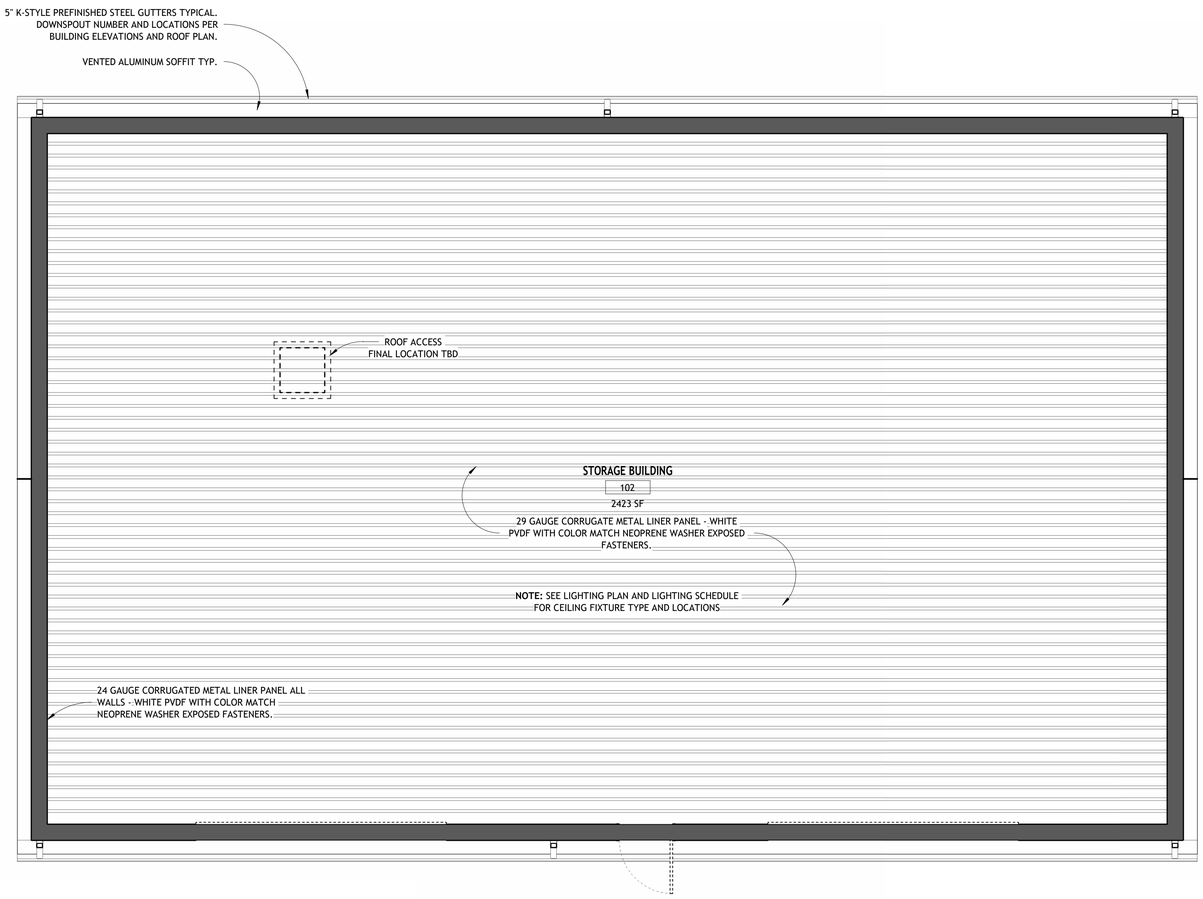
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A100



1 REFLECTED CEILING PLAN

1/4" = 1'-0"

0 2" 4" 8"
0 2"
1/4" = 1'-0"

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REFLECTED CEILING PLAN

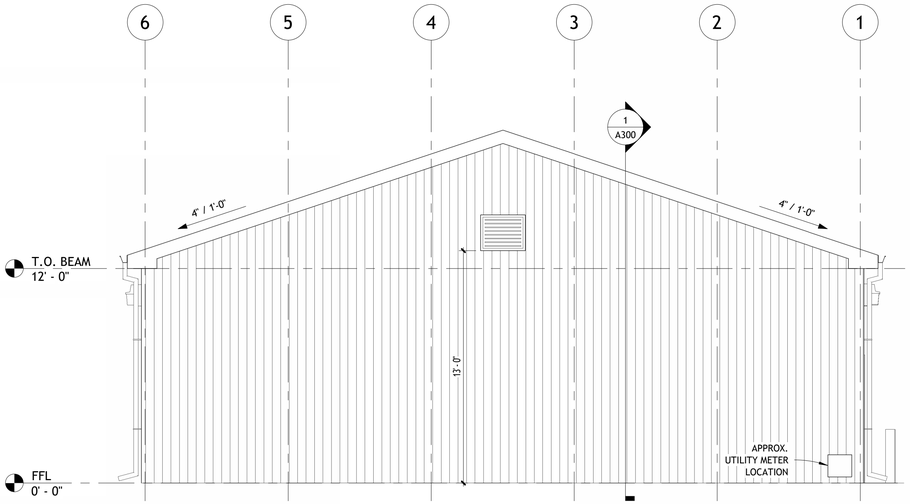
STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

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Date	Revision
05-12-2026	100% Bidding Documents

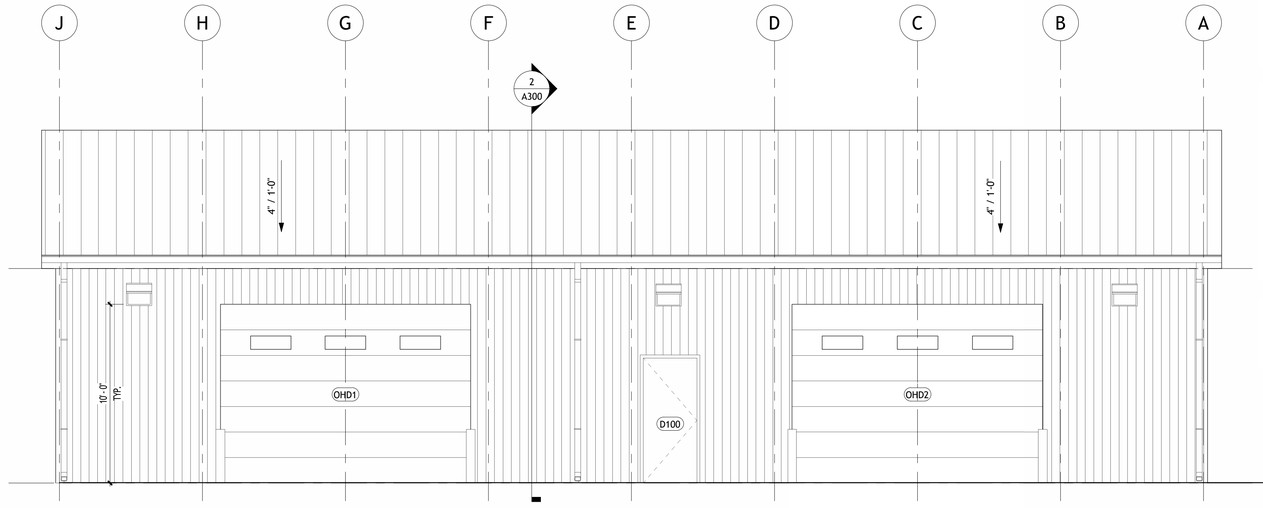
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PROJECT NUMBER: 20-05-64-01
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DATE: 05-12-2026
SHEET No: **A110**



WEST ELEVATION

4 EXTERIOR ELEVATION

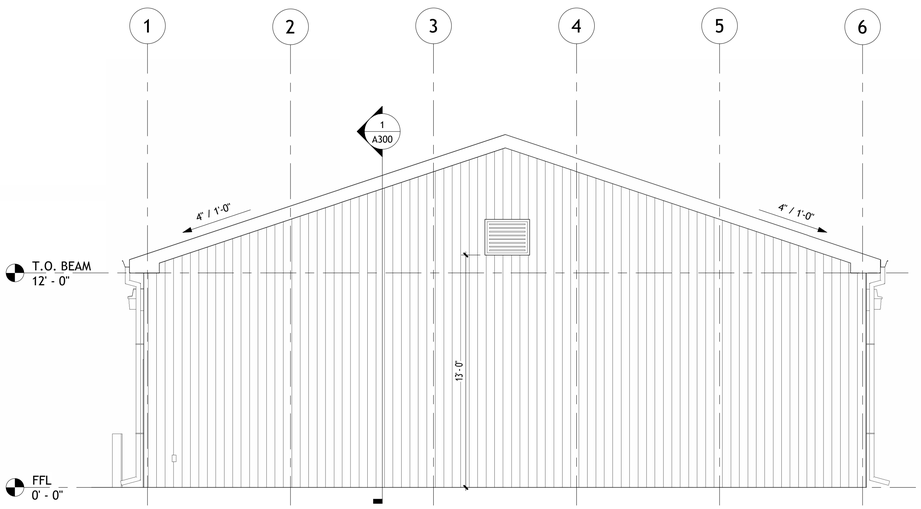
1/4" = 1'-0"



3 EXTERIOR ELEVATION

1/4" = 1'-0"

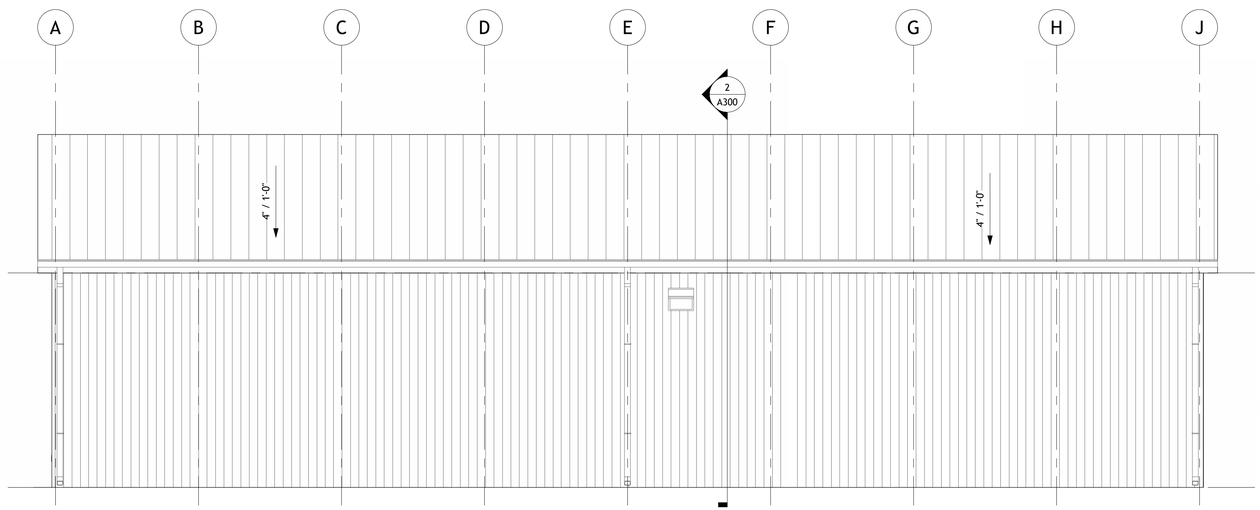
0 2' 4' 8'
0 2'
1/4" = 1'-0"



EAST ELEVATION

2 EXTERIOR ELEVATION

1/4" = 1'-0"



1 EXTERIOR ELEVATION

1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"

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EXTERIOR ELEVATIONS

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

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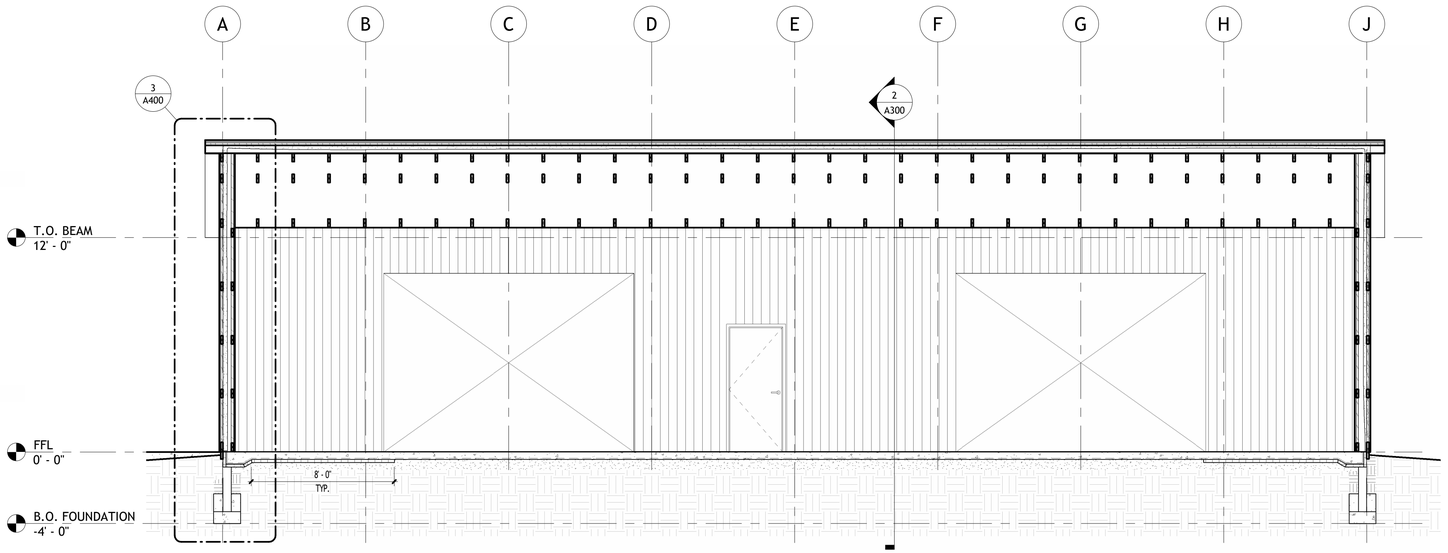
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A200



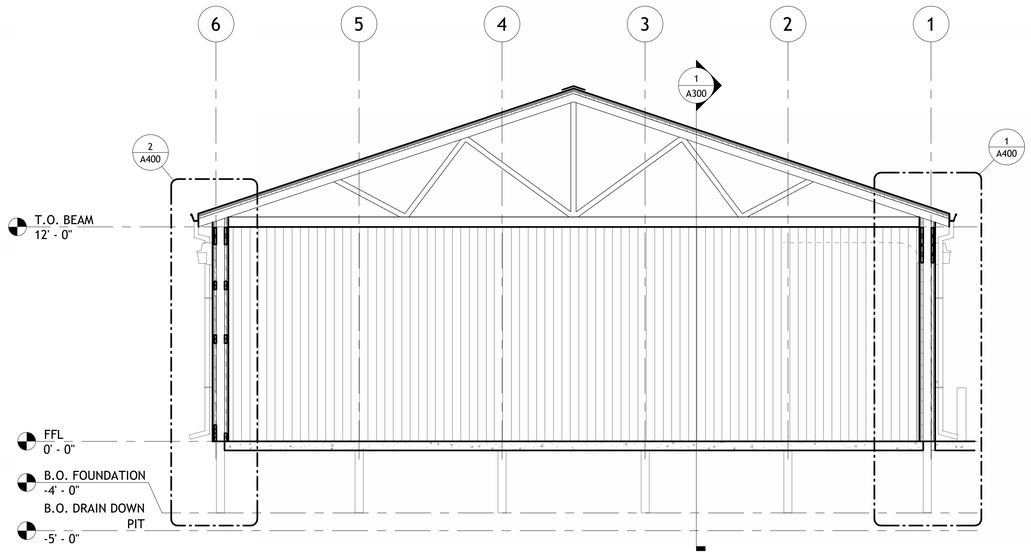
EAST - WEST

1 BUILDING SECTION

1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"

NOTE: SEE WALL SECTIONS FOR DETAILED CONSTRUCTION REQUIREMENTS



NORTH - SOUTH

2 BUILDING SECTION

1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"

NOTE: SEE WALL SECTIONS FOR DETAILED CONSTRUCTION REQUIREMENTS

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BUILDING SECTIONS

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

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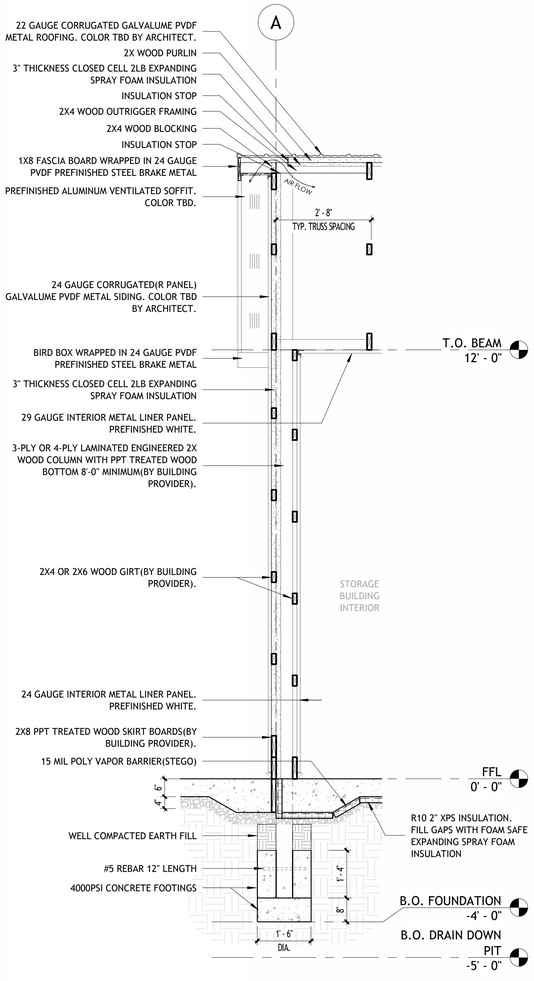
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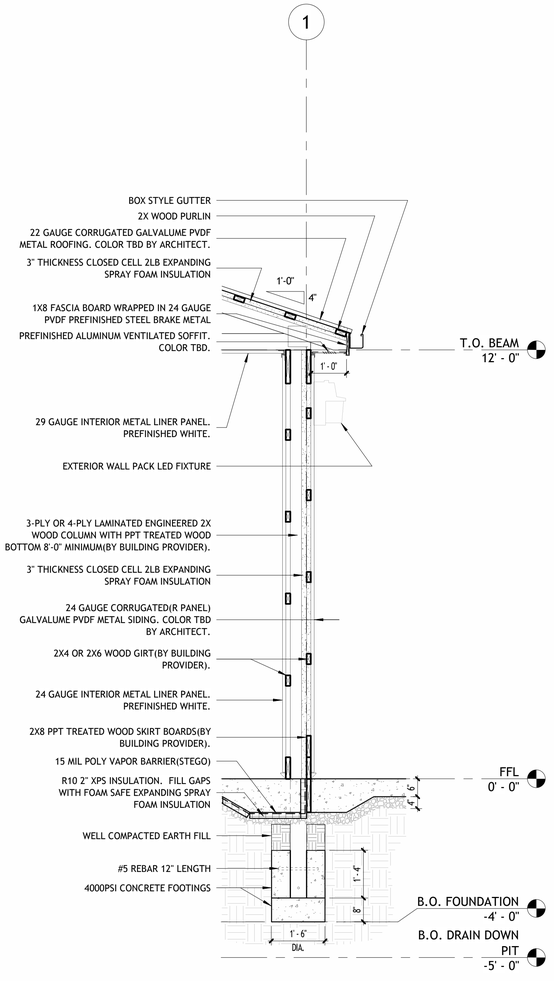
A300



WALL SECTION

3 TYPICAL END WALL

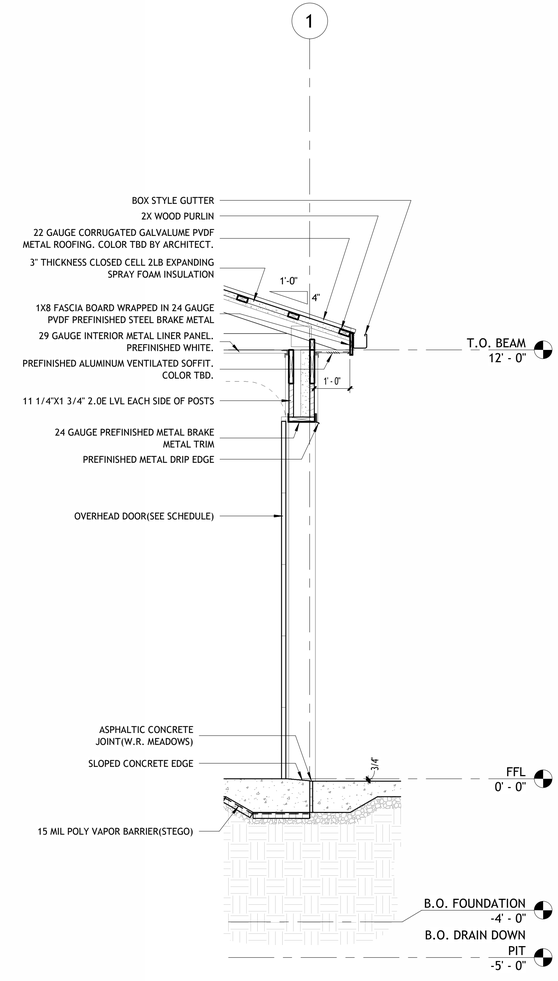
1/2" = 1'-0"



WALL SECTION

2 TYPICAL SIDE WALL

1/2" = 1'-0"



WALL SECTION

1 OVERHEAD DOORS

1/2" = 1'-0"

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WALL SECTIONS AND DETAILS

STORAGE BUILDING - DOT PROJECT #NRT-C064(1144)--9G-64

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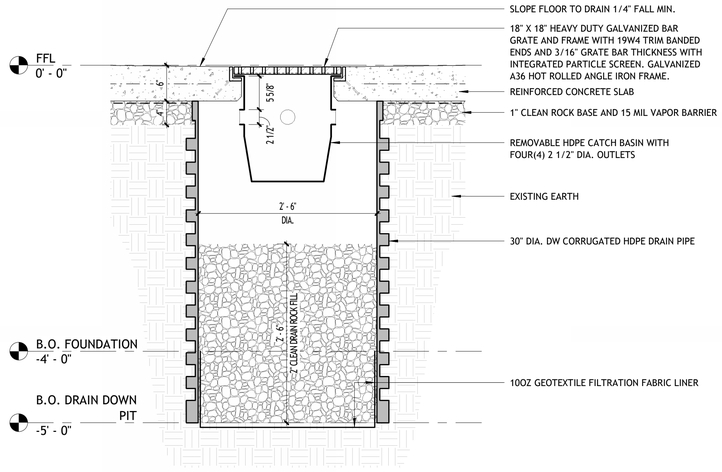
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A400



FLOOR DRAIN SECTION

1 DRAIN DOWN PIT

1" = 1'-0"

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DETAILS

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64

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-	05-12-2026

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A500

ROOM FINISH SCHEDULE

Room Number	Room Name	Floor Finish	Base Finish	North Wall Finish	East Wall Finish	West Wall Finish	South Wall Finish	Ceiling Finish	Ceiling Height	Comments
102	STORAGE BUILDING	CONC-1	ST-1	ST-1	ST-1	ST-1	ST-1	ST-2	12' - 0"	

CONC-1 - PENETRATING CONCRETE SEALER; CLEAR; MATTE; SILANE OR SILOXANE
ST-1 - STEEL LINER PANEL; 24 GAUGE; WHITE
ST-2 - STEEL LINER PANEL; 29 GAUGE; WHITE

DOOR SCHEDULE

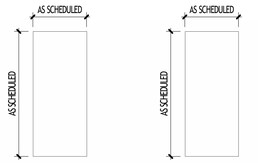
	Door						Frame							Hardware		
	Size															
Mark	Width	Height	Thickness	Material	Finish	Type	Material	Type	Finish	Head	Jamb	Sill	Fire Rating Label	Set No.	From Room: Number	Comments
D100	3' - 0"	7' - 0"	0' - 1 3/4"	STL	PNT	D-2	STL	F1	PNT				-			

SC WOOD - SOLID CORE WOOD
STL - STEEL
HM - HOLLOW METAL
PNT - PAINT; SHERWIN WILLIAMS EMERALD URETHANE TRIM AND ENAMEL; COLOR TBD BY ARCHITECT

HARDWARE:
A. ALL HARDWARE MODEL NUMBERS BASED ON SCHLAGE "ND-SERIES" LOCKSETS(ATHENS) AND "IVES" HARDWARE, OR APPROVED EQUAL.
B. HARDWARE FINISH TO BE: "SATIN CHROMIUM 626" UNLESS OTHERWISE NOTED.
C. CHECK ALL QUANTITIES, DIMENSIONS AND FINISHES BEFORE ORDERING.
D. ALL STEEL DOORS AND FRAMES TO BE GALVANIZED AND PRIMED. FIELD PAINT ALL STEEL DOORS AND FRAMES DARK GRAY. COLOR TBD BY ARCHITECT.

DOOR D100 HARDWARE SET:

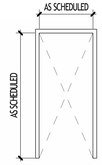
3 EA.	HINGES	FBB179 4 1/2" x 4 1/2"
1 EA.	PRIVACY LOCKSET	ND40S
1 EA.	INTERIOR MOUNTED CLOSER	LCN 4040XP



D-1
SOLID CORE WOOD

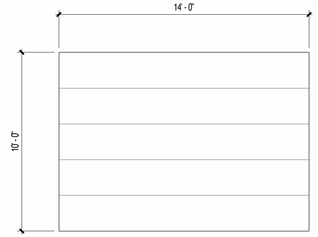
D-2
STEELCRAFT L18
HONEY-COMB CORE

INTERIOR/EXTERIOR
DOOR TYPES



F-1
STEELCRAFT "F" SERIES
HOLLOW METAL

INTERIOR/EXTERIOR
FRAME TYPES



EXTERIOR
OVERHEAD DOORS

NOTE: OHD-1 AND OHD-2 BASIS OF DESIGN: OVERHEAD DOOR THERMACORE 599

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SCHEDULES AND DETAILS

STORAGE BUILDING - DOT PROJECT #NRT-C064(144)--9G-64
MARSHALL COUNTY ATV

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Date	Revision
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PROJECT NUMBER: 20-05-64-01
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A600

LOUVER SCHEDULE

REFERENCE	L-1	L-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL	ESD-635-30x24	ESD-635-30x24
WEIGHT (LBS)	17	17
DIMENSIONS - W x H (INCHES)	30x24	30x24
APPLICATION	EXHAUST	INTAKE
MATERIAL	ALUMINUM	ALUMINUM
AIRFLOW (CFM)	1,200	1,200
FREE AREA VELOCITY (FPM)	511	511
FREE AREA (SQ. FT.)	2.30	2.30
PRESSURE DROP (IN. W.C.)	0.04	0.04
BLADE TYPE	FIXED	FIXED
BLADE DIRECTION	HORIZONTAL	HORIZONTAL
DRAINABLE	YES	YES
NOTES	1,2,3	1,2,3

NOTES:
1. PROVIDE COLOR CHARTS TO ARCHITECT FOR COLOR SELECTION.
2. PROVIDE WITH BIRDSCREEN.
3. STATED SIZES ARE MINIMUM FOR PERFORMANCE, COORDINATE OVERALL LOUVER SIZES AND LOCATIONS WITH ARCHITECT.

MOTORIZED DAMPER SCHEDULE

REFERENCE	MOD-1
MANUFACTURER	GREENHECK
MODEL	ICD-45
DIMENSIONS - W x H (INCHES)	30x26
AIRFLOW (CFM)	2850
BLADE STYLE	OPPOSED
BLADE DIRECTION	HORIZONTAL
INSULATED	YES
THERMALLY BROKEN	YES
ACTUATOR TYPE	ELECTRIC (120V)
ACTUATOR STYLE	2 POSITION
POWER FAILURE POSITION	CLOSED
NOTES	1,2

NOTES:
1. DAMPER SHOULD BE ULTRA LOW LEAK TYPE WITH INSULATED BLADES, BLADE AND SIDE SEALS.
2. EC TO POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH EF-1 START OR STOP.

FAN SCHEDULE

REFERENCE	EF-1
MANUFACTURER	GREENHECK
MODEL #	SQ-130-VG
TYPE	INLINE
WEIGHT (LBS)	74
DIMENSIONS - L x W x H (INCHES)	21x21x21
AIRFLOW (CFM)	1,200
ESP (IN. W.C.)	0.20
FAN SPEED (RPM)	1,009
MOTOR DRIVE TYPE	DIRECT
MOTOR SPEED CONTROL	POTENTIOMETER
SONES	6
DAMPER TYPE	MOTORIZED
ELECTRICAL DATA	
MOTOR HP	3/4
VOLTAGE - PHASE	230 - 1
MCA	7.5
MOCP	15
NOTES	1,2,3,4

NOTES:
1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND INTEGRAL DISCONNECT.
2. PROVIDE WITH DAMPER AND 115 VAC ACTUATOR WITH UNIT.
3. EC TO POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN START OR STOP.
4. PROVIDE SEPARATE WALL SWITCH FOR FAN OPERATION.

UNIT HEATER SCHEDULE

REFERENCE	UH-1,2
MANUFACTURER	INDEECO
MODEL #	UCI
WEIGHT (LBS)	85
DIMENSIONS - L x W x H (INCHES)	22x22.5x17.5
AIRFLOW (CFM)	1,300
TYPE	ELECTRIC
CAPACITY (KW)	15
ELECTRICAL DATA	
VOLTAGE - PHASE	230 - 1
AMPS	64
NOTES	1,2,3,4

NOTES:
1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION. DISCONNECT BY ELECTRICAL CONTRACTOR.
2. PROVIDE UNIT WITH REMOTE THERMOSTAT.
3. UNIT TO INCLUDE ALL MOUNTING BRACKETS. HARDWARE, ETC. FOR COMPLETE INSTALL.
4. MOUNT UNIT HEATER WHERE BOTTOM IS AT MINIMUM OF 12'-0" AFF, OR AS RECOMMENDED BY UNIT MFR.

GENERAL SYMBOLS

(#) KEYNOTE

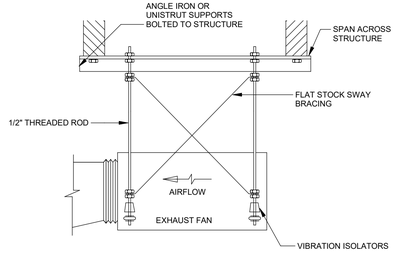
XXX / X EQUIPMENT IDENTIFICATION TAG

MECHANICAL - GENERAL NOTES

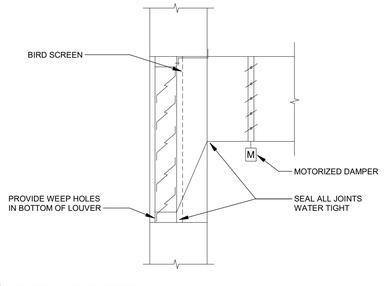
1. COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
2. INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
3. COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
4. CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.

HVAC - NOTES

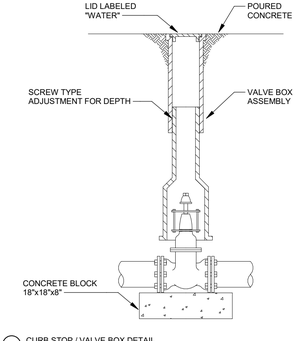
1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.



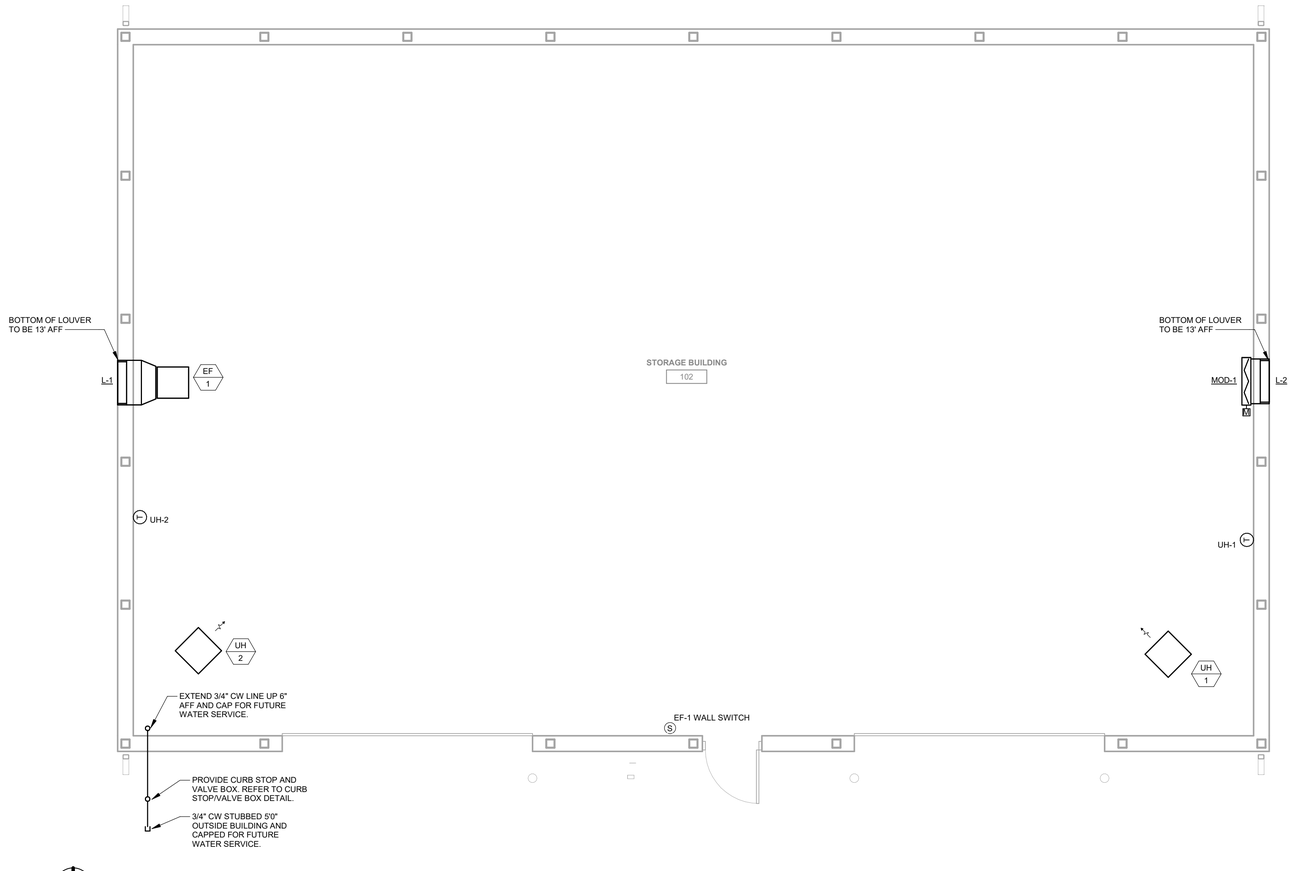
4 INLINE EXHAUST FAN DETAIL
NTS



3 INTAKE/EXHAUST LOUVER DETAIL
NTS



2 CURB STOP / VALVE BOX DETAIL
NTS



1 MECHANICAL HVAC PLAN
1/4" = 1'-0"

KCL ENGINEERING
300 4th St
West Des Moines, IA
50265
515-724-7938

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MECHANICAL PLANS

STORAGE BUILDING - DOR PROJECT #NRT-C064(144)-9G-64

MARSHALL COUNTY ATV

2002 MARION STREET MARSHALLTOWN, IOWA 50158

Date	Revision
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KCL	20-05-64-01
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-	4-24-2026

SHEET No:

M100

GENERAL NOTES - ELECTRICAL

1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
2. ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

CODE NOTES - ELECTRICAL

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
2. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
3. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
4. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.

INSTALLATION NOTES - ELECTRICAL

1. BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID.
2. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
3. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
4. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
5. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
6. DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.
7. BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMMODATE.
8. PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.
9. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

1. PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
2. PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
3. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
4. INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
5. INSTALL WALL MOUNTED LIGHT SWITCHES AT +46" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXCEPTION: INSTALL DEVICES ABOVE AN OBSTRUCTED HIGH FORWARD REACH OBSTACLE GREATER THEN 20 INCHES IN DEPTH AT +42".

INSTALLATION NOTES - LIGHTING

1. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION. INSTALL PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.
2. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.
3. LIGHTING CONTROLS SENSORS ARE SHOWN ON PLANS AT SUGGESTED LOCATIONS ONLY. VERIFY LOCATIONS WITH MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES.
4. PROVIDE LIGHTING CONTROLS AS A COMPLETE SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR OPERATION.

NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT

GENERAL SYMBOLS

- (#) KEYNOTE
- XXX / X EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE

POWER SYMBOLS

- G RECESSED DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- RECESSED SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED
- EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- M UTILITY METER
- SURFACE MOUNTED PANELBOARD

LIGHTING SYMBOLS

- INDUSTRIAL STRIP LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
- EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED
- $ SINGLE POLE SWITCH, WALL MOUNT +46"

LIGHTING PLANS NOTATION KEY



ELECTRICAL ABBREVIATIONS

A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	SCCR	SHORT CIRCUIT CURRENT RATING
		T	TAMPER PROOF DEVICE
AFF	ABOVE FINISHED FLOOR	TCC	TEMPERATURE CONTROL CONTRACTOR
CT	CURRENT TRANSFORMER	TYP	TYPICAL
E	EXISTING ITEM TO REMAIN	V	VOLTS
EC	ELECTRICAL CONTRACTOR	VA	VOLT-AMPERES
EM	EMERGENCY LIGHT FIXTURE	WP	WEATHERPROOF DEVICE
G	GROUND FAULT CIRCUIT INTERRUPTER	WR	WEATHER RESISTANT DEVICE
GND	GROUND	+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR
KVA	KILO-VOLT-AMPERES		
KW	KILOWATTS		
MCB	MAIN CIRCUIT BREAKER		
NIC	NOT IN CONTRACT		
NM	NONMETALLIC		
NTS	NOT TO SCALE		

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GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

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ELECTRICAL GENERAL NOTES

STORAGE BUILDING - DOR PROJECT #NRT-C064(144)-9G-64
MARSHALL COUNTY ATV
2002 MARION STREET MARSHALLTOWN, IOWA 50158

Date	Revision
03-13-2026	75% Construction Documents
04-24-2026	100% Construction Documents

DRAWN BY:	PROJECT NUMBER:
KCL	20-05-64-01
CHK'D BY:	DATE:
-	4-24-2026

SHEET No:

E001

POWER GENERAL NOTES

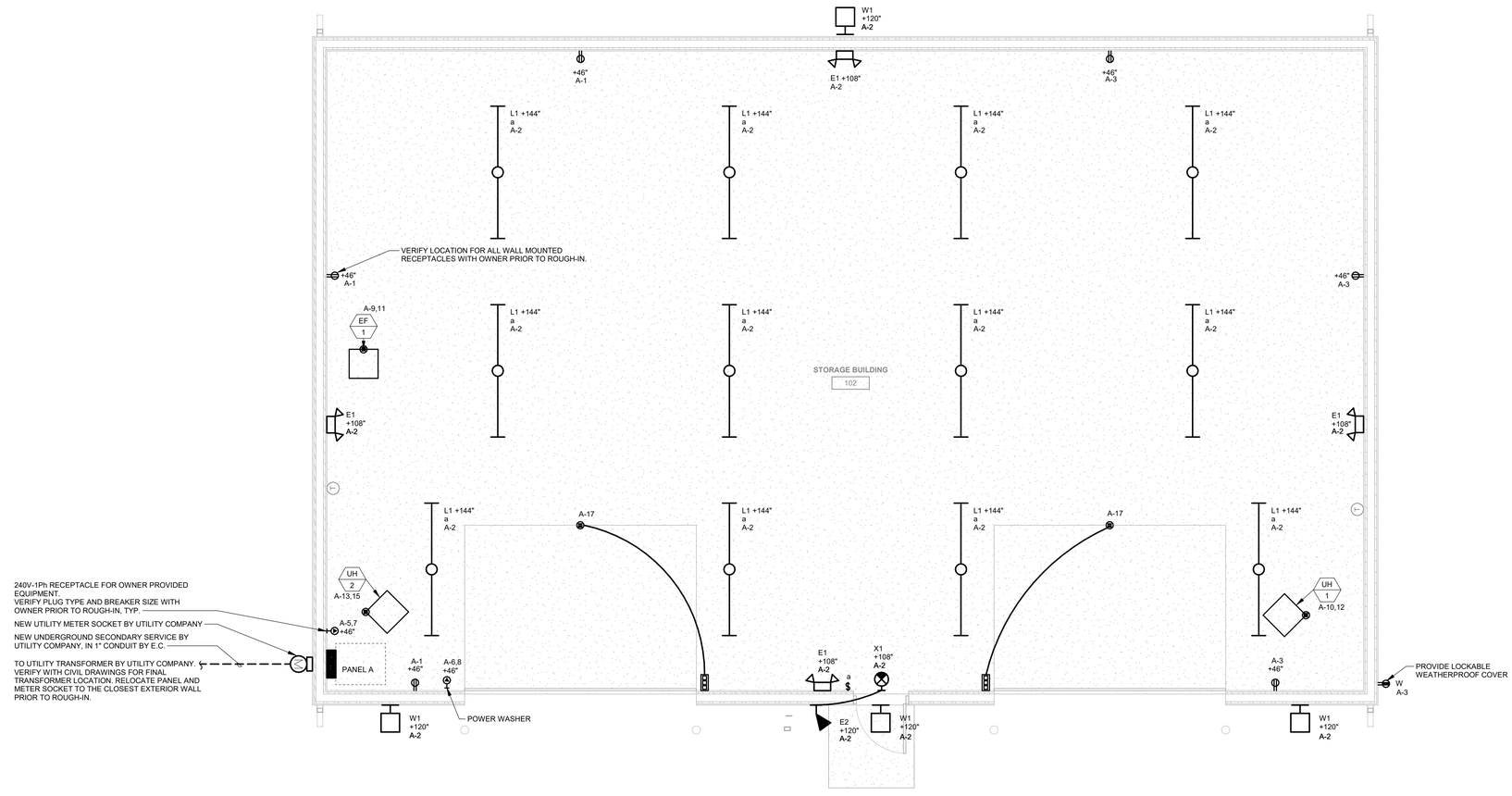
A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.



1 ELECTRICAL PLAN
1/4" = 1'-0"

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ELECTRICAL PLANS

STORAGE BUILDING - DOR PROJECT #NRT-C064(144)-9G-64

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LIGHTING FIXTURE SCHEDULE

NOTES:

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: DLB

TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	CRI	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
E1	LITHONIA LIGHTING	ELM2L-UVOLT-L TP-M12	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS	WHITE	200	-	NON-DIMMING DRIVER	LED - 4000K	120 V	3 VA	ISO-LITE, DUAL-LITE, EMERGENSEE, OR AS APPROVED BY ENGINEER
E2	LITHONIA LIGHTING	AFB-OEL-DDBT XD-UVOLT-N-W T-CW	SINGLE LED REMOTE HEAD, FULLY ADJUSTABLE LAMP-HEAD, POWERED BY TYPE X1, 3VDC	BRONZE	300	-	NON-DIMMING DRIVER	LED - 4000K	120 V	3 VA	SURE-LITES, LIGHTALARMS
L1	LITHONIA LIGHTING	CLX-L96-3000LM -HEF-FDL-WD-1 20-GZ10-40K-80 CRI	CHAIN OR SURFACE MOUNT 8' STRIPLIGHT, POLYCARBONATE LENS, GENERAL DISTRIBUTION, DAMP LOCATION RATED	WHITE	3000	80+	NON-DIMMING DRIVER	LED-4000K	120 V	39 VA	COLUMBIA LIGHTING, COOPER METALUX, CREE, OR AS APPROVED BY ENGINEER
W1	LITHONIA LIGHTING	TWR1 LED ALO SWW2 UVOLT PE DDBTXD	EXTERIOR WALL PACK, MAXIMUM 60W SWITCHABLE / FACTORY SET TO LOW SETTING 16W, GASKETED LENS, TYPE 4 DISTRIBUTION, PHOTOCELL CONTROL	BRONZE	2,200	80+	NON-DIMMING DRIVER	LED-4000K	120 V	60 VA	LITHONIA LIGHTING, COOPER MC-GRAW EDISON, SLG LIGHTING OR AS APPROVED BY ENGINEER
X1	LITHONIA LIGHTING	LHQM-S-W-3-R	BACK MOUNT EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS, REMOTE BATTERY	WHITE	N/A	-	NON-DIMMING DRIVER	RED LED	120 V	4 VA	ISO-LITE, DUAL-LITE, EMERGENSEE, OR AS APPROVED BY ENGINEER

EQUIPMENT CONNECTION SCHEDULE

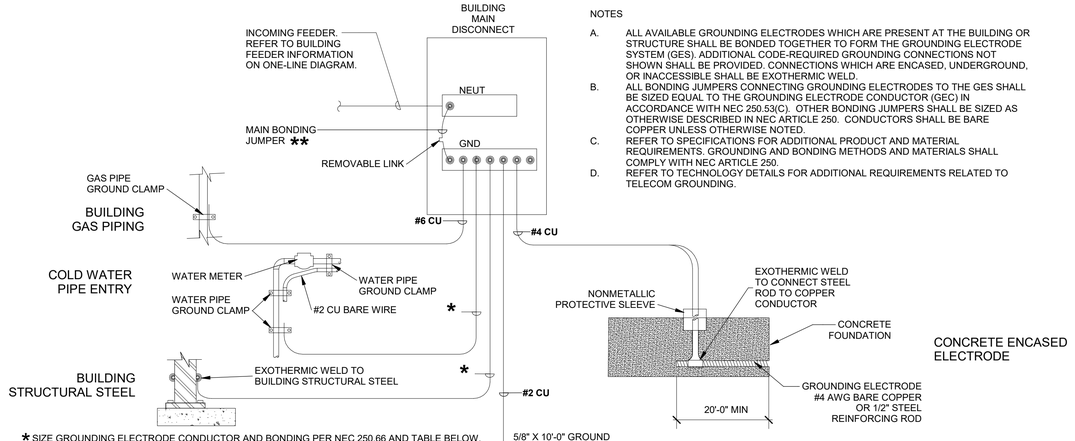
GENERAL NOTES:

1. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V...

ABBREVIATIONS:

1 NEMA 1 ENCLOSURE
3R NEMA 3R ENCLOSURE
4 NEMA 4 ENCLOSURE
4X NEMA 4X ENCLOSURE
INT INTEGRAL WITH EQUIPMENT...
M... MANUAL MOTOR STARTER WIT...
N... NON-FUSED DISCONNECT...
RD RETURN AIR DUCT DETECTOR

TAG	ELECTRICAL CHARACTERISTICS					DISCONNECT			REMARKS
	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	
EF-1	240 V	1	-	-	7.5	INT	-	-	POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN START OR STOP.
UH-1	240 V	1	-	-	64	CB	-	-	UNIT TO BE CONTROLLED VIA THERMOSTAT.
UH-2	240 V	1	-	-	64	CB	-	-	UNIT TO BE CONTROLLED VIA THERMOSTAT.



NOTES

A. ALL AVAILABLE GROUNDING ELECTRODES WHICH ARE PRESENT AT THE BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM (GES). ADDITIONAL CODE-REQUIRED GROUNDING CONNECTIONS NOT SHOWN SHALL BE PROVIDED. CONNECTIONS WHICH ARE ENCASED, UNDERGROUND, OR INACCESSIBLE SHALL BE EXOTHERMIC WELD.
B. ALL BONDING JUMPERS CONNECTING GROUNDING ELECTRODES TO THE GES SHALL BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTOR (GEC) IN ACCORDANCE WITH NEC 250.53(C). OTHER BONDING JUMPERS SHALL BE SIZED AS OTHERWISE DESCRIBED IN NEC ARTICLE 250. CONDUCTORS SHALL BE BARE COPPER UNLESS OTHERWISE NOTED.
C. REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT AND MATERIAL REQUIREMENTS. GROUNDING AND BONDING METHODS AND MATERIALS SHALL COMPLY WITH NEC ARTICLE 250.
D. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL REQUIREMENTS RELATED TO TELECOM GROUNDING.

* SIZE GROUNDING ELECTRODE CONDUCTOR AND BONDING PER NEC 250.66 AND TABLE BELOW.
ALL CONDUCTORS TO BE COPPER.
TABLE BASED ON NEC 2023
TABLE 250.66 GROUDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS

SIZE OF LARGEST UNGROUDNING CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/KCMIL)		SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/KCMIL)
COPPER	ALUMINUM OR COPPER-CLAD AL	COPPER
#2 OR SMALLER	#1/0 OR SMALLER	#8
#1 OR #1/0	#2/0 OR #3/0	#6
#2/0 OR #3/0	#4/0 OR 250	#4
OVER #3/0 THROUGH 350	OVER 250 THROUGH 500	#2
OVER 350 THROUGH 600	OVER 500 THROUGH 900	#1/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	#2/0
OVER 1100	OVER 1750	#3/0

** SIZE BONDING JUMPER PER NEC 250.102. USE TABLE ABOVE FOR ALL CONDUCTORS BETWEEN #2 AND 1100. ALL INCOMING CONDUCTORS OVER 1100 CU OR 1750 AL SHALL BE SIZED PER THE TABLE 250.102(C). SERVICE EQUIPMENT SHALL BE SUPPLIED WITH BONDING JUMPER FROM THE MANUFACTURER.

2 GROUNDING ELECTRODE SYSTEM
NOT TO SCALE

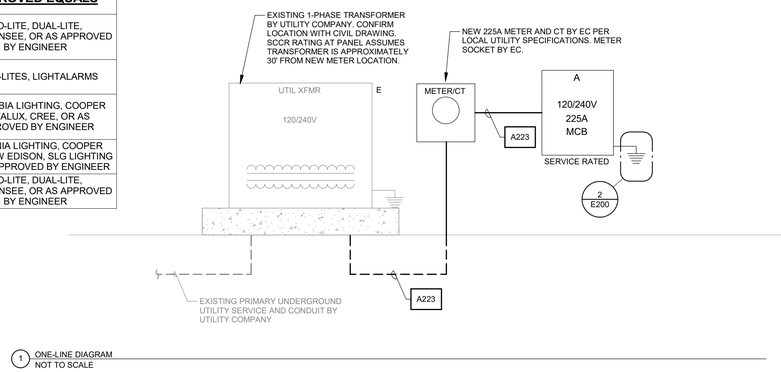
RISER DIAGRAM GENERAL NOTES

A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
C. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.
E. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

FEEDER SCHEDULE

NOTE: ALL CONDUCTORS THHN/THWN COPPER UNLESS OTHERWISE NOTED.

TAG	PHASE	GROUND	CONDUIT
A223	1- SET (3) 300 MCM AL	-	(1) 3"



1 ONE-LINE DIAGRAM
NOT TO SCALE

BRANCH PANEL: A

LOCATION: STORAGE BUILDING 102
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/240 SINGLE ϕ
PHASES: 1
WIRES: 3
SCCR RATING: 65kA
MAINS TYPE: MCB (SERVICE RATED)
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:
* CIRCUIT FOR OWNER PROVIDED EQUIPMENT. COORDINATE BREAKER SIZE WITH OWNER PRIOR TO ORDERING.

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		CKT NO	AMP	P	CIRCUIT DESCRIPTION
RECEPTACLES	1	G 20 A	1	540	727			2	20 A	1	LIGHTING
RECEPTACLES	1	20 A	3			720	0	4	20 A --	1	SPARE
EQUIPMENT *	2	50 A	5	500	500			6	30 A	2	EQUIPMENT - POWERWASHER *
			7			500	500	8			
EF-1	2	15 A	9	900	7680			10	70 A	2	UH-1
			11			900	7680	12			
UH-2	2	70 A	13	7680	0			14	20 A --	1	SPARE
			15			7680	0	16	20 A --	1	SPARE
GARAGE DOORS	1	20 A	17	1000	0			18	20 A --	1	SPARE
SPARE	1	-- 20 A	19			0	0	20	20 A --	1	SPARE
SPARE	1	-- 20 A	21	0	0			22	20 A --	1	SPARE
SPARE	1	-- 20 A	23			0	0	24	20 A --	1	SPARE
				19527 VA		17980 VA					
				163 A		150 A					

LEGEND:
"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP
"F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	727 VA	125.00%	909 VA		
POWER	33520 VA	100.00%	33520 VA	TOTAL CONN. LOAD:	37507 VA
RECEPTACLE	3260 VA	100.00%	3260 VA	TOTAL EST. DEMAND:	37689 VA
				TOTAL CONN.:	156 A
				TOTAL EST. DEMAND:	157 A

NOTES:

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ONE-LINE AND SCHEDULES

STORAGE BUILDING - DOR PROJECT #NRT-C064(144)-9G-64
MARSHALL COUNTY ATV
2002 MARION STREET MARSHALLTOWN, IOWA 50158

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